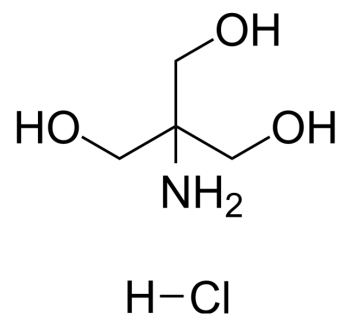


## THAM hydrochloride (≥99%, reagent grade)

<b>Cat. No.:</b>	HY-D0227F
<b>CAS No.:</b>	1185-53-1
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>12</sub> ClNO <sub>3</sub>
<b>Molecular Weight:</b>	157.6
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (1586.29 mM; Need ultrasonic)					
	H <sub>2</sub> O : 50 mg/mL (317.26 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		6.3452 mL	31.7259 mL	63.4518 mL
<b>5 mM</b>			1.2690 mL	6.3452 mL	12.6904 mL	
	<b>10 mM</b>		0.6345 mL	3.1726 mL	6.3452 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (13.20 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (13.20 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (13.20 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	THAM hydrochloride (≥99%, reagent grade), also known as Tris-HCl, is a buffer commonly used in various biochemical and molecular biology applications to maintain a stable pH environment. Tris-HCl has unique chemical properties that allow it to resist changes in pH when acidic or basic substances are added, which makes it useful for stabilizing biological samples or reagents. It is commonly used in electrophoresis and protein purification procedures.
<b>In Vitro</b>	THAM hydrochloride (≥99%, reagent grade) is a biochemical reagent that can be used as a biological material or organic compound for life science related research. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA